

Abstract

The invention relates to an oriented pressure-sensitive adhesive and to a process for
5 preparing it.

The pressure-sensitive adhesive comprises an acrylate-based UV-crosslinked polymer
which is synthesized in a mass fraction of at least 50% from at least one acrylic
10 monomer according to the general formula (I)



in which R₁ is hydrogen (H) or a methyl group (CH₃) and R₂ is hydrogen (H) or a
branched or unbranched, saturated C₁ to C₃₀ hydrocarbon radical, which may optionally
be substituted by a functional group, the pressure-sensitive adhesive, in the form of a film
15 applied as a melt (hotmelt), having a preferential direction which is characterized in the
free film by a shrinkback of at least 3% relative to an original stretching of the film in the
preferential direction. The orientation is generated after polymerization by means of a
suitable coating process and is subsequently "frozen in" by UV crosslinking. The
pressure-sensitive adhesive is outstandingly suitable for use as an adhesive layer on
20 single-sided or double-sided adhesive tapes.